PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT
To: KIMBERLY-CLARK WORLDWIDE, INC. Attn. Garrison, Scott, B. 401 N. Lake Street Neenah, Wi 54956 UNITED STATES OF AMERICA	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION JUL 2 2 2002 (PCT Rule 44.1)
	Date of mailing (day/month/year) 19/07/2002
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below
15812.1	
International application No. PCT/US 01/50275	International filing date (day/month/year) 20/12/2001
Applicant	
KIMBERLY-CLARK WORLDWIDE, INC.	
1. X The applicant is hereby notified that the International Search Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim When? The time limit for filing such amendments is normal International Search Report; however, for more det Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35 For more detailed instructions, see the notes on the accordant of the applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith. 3. With regard to the protest against payment of (an) addition the protest together with the decision thereon has been applicant's request to forward the texts of both the protest applicant's request to forward the texts of both the protest applicant's request to forward the texts of both the protest applicant is reminded of the following: Shortly after 18 months from the priority date, the international applicant after 18 months from the priority date, the international applicant is reminded of the following:	s of the International Application (see Rule 46): Ily 2 months from the date of transmittal of the tails, see the notes on the accompanying sheet. Impanying sheet. Report will be established and that the declaration under that the declaration under the transmitted to the International Bureau together with the test and the decision thereon to the designated Offices. Ilicant will be notified as soon as a decision is made.
If the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided completion of the technical preparations for international publication. Within 19 months from the priority date, a demand for internation wishes to postpone the entry into the national phase until 30 mc. Within 20 months from the priority date, the applicant must perforbefore all designated Offices which have not been elected in the priority date or could not be elected because they are not bound.	e of withdrawal of the international application, or of the in Rules 90bis.1 and 90bis.3, respectively, before the ation. all preliminary examination must be filed if the applicant on the priority date (in some Offices even later). The prescribed acts for entry into the national phase is demand or in a later election within 19 months from the
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Tanja R}hrmund

Farm DOT/ICA/000 / I.il. 4000\

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international politication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (c ntinued)

The letter must indicate the differences between the claims as filed and the claims as amended, it must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report (20) as well as, where applicable, Item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 01/50275	20/12/2001	22/12/2000
Applicant		
KIMBERLY-CLARK WORLDWIDE,	INC.	
This International Search Report has bee according to Article 18. A copy is being tr	n prepared by this International Searching Aut ansmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report consists X It is also accompanied by	of a total of4 sheets. a copy of each prior art document cited in this	s report.
Basis of the report		
 With regard to the language, the language in which it was filed, ur 	international search was carried out on the balless otherwise indicated under this item.	sis of the international application in the
the international search (Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of	the international application furnished to this
was carried out on the basis of the	ne sequence listing:	nternational application, the international search
<u> </u>	onal application in written form.	·m
=	ernational application in computer readable for	ni.
l ==	o this Authority in written form.	
1	o this Authority in computer readble form. ubsequently furnished written sequence listing.	does not go beyond the disclosure in the
international application	as filed has been furnished.	
the statement that the in furnished	formation recorded in computer readable form	is identical to the written sequence listing has been
1 =	und unsearchable (See Box I).	
3. Unity of invention is la	cking (see Box II).	
4. With regard to the title,		
X the text is approved as	submitted by the applicant.	
the text has been estab	ished by this Authority to read as follows:	
5. With regard to the abstract,		
	submitted by the applicant.	
the text has been estab within one month from t	lished, according to Rule 38.2(b), by this Autho he date of mailing of this international search r	ority as it appears in Box III. The applicant may, eport, submit comments to this Authority.
6. The figure of the drawings to be pu	iblished with the abstract is Figure No.	1
as suggested by the ap	plicant.	None of the figures.
because the applicant f	ailed to suggest a figure.	
because this figure bett	er characterizes the invention.	

International application No.

INTERNATIONAL SEARCH REPORT

PCT/US 01/50275

B x III TEXT OF THE ABSTRACT (C ntinuati n of item 5 of the first sheet)

An ultrasonically enhanced continuous flow apparatus and method for selectively microemulsifying water and other normally immiscible fluids into the fuel of continuous combustors at the point of injection and a method for the same is disclosed. The apparatus includes an injector housing which in part defines a chamber adapted to receive a pressurized liquid and a means for applying ultrasonic energy to a portion of the pressurized liquid. The injector housing further includes an inlet adapted to supply the chamber with the pressurized liquid, and an exit orifice defined by the walls of an injector tip. The exit orifice is adapted to receive the pressurized liquid from the chamber via a vestibular cavity and pass the liquid out of the injector housing in the form of an emulsified, atomized plume. When the means for applying ultrasonic energy is excited, it applies ultrasonic energy to the pressurized liquid without mechanically vibrating the injector tip.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F02M69/04 F02M27/08 F23D11/34 B05B17/06 F02M43/04 B01F3/08

According to International Patent Classification (IPC) or to both national classification and IPC

 $\begin{array}{cccc} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{F02M} & \mbox{F23D} & \mbox{B05B} & \mbox{B01F} \\ \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Y	WO 97 23280 A (KIMBERLY-CLARK WORLWIDE INC.) 3 July 1997 (1997-07-03) claims	1-35	
γν	WO 97 23726 A (KIMBERLY-CLARK WORLWIDE INC.) 3 July 1997 (1997-07-03) claims	1-35	
Υ	US 6 053 424 A (L.H.GIPSON ET AL) 25 April 2000 (2000-04-25) claims	1-35	
A ~	US 3 860 173 A (N.SATA) 14 January 1975 (1975-01-14) claims	1	
	-/		

l	
X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
11 July 2002	19/07/2002
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Cordero Alvarez, M

		PC1/US 01,	
C.(Continue	Ition) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A /	PATENT ABSTRACTS OF JAPAN vol. 0061, no. 58 (C-120), 19 August 1982 (1982-08-19) & JP 57 078967 A (TOSHIBA CORP), 17 May 1982 (1982-05-17) abstract		1
A	1/ May 1982 (1982-05-17) abstract PATENT ABSTRACTS OF JAPAN vol. 0061, no. 86 (C-126), 22 September 1982 (1982-09-22) & JP 57 099327 A (TOSHIBA CORP), 21 June 1982 (1982-06-21) abstract		1

Information on patent family members

PCT/US 01/50275

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 9723280	A	03-07-1997	US	6380264 B1	30-04-2002
			AU	1418497 A	17-07-1997
			CA	2238990 A1	03-07-1997
			WO	9723280 A1	03-07-1997
			US	6020277 A	01-02-2000
			ZA	9609682 A	12-06-1997
/ WO 9723726	Α	03-07-1997	AU	1144397 A	17-07-1997
			CA	2239013 A1	03-07-1997
			TW	387975 B	21-04-2000
			WO	9723726 A1	03-07-1997
			ZA	9609680 A	12-06-1997
US 6053424	Α	25-04-2000	AU	1683297 A	17-07-1997
			CA	2237714 A1	03-07-1997
			TW	402525 B	21-08-2000
			WO	9723305 A1	03-07-1997
			US	6315215 B1	13-11-2001
			ZA	9609681 A	12-06-1997
✓ US 3860173	Α	14-01-1975	NONE		
/ JP 57078967 A 17-09	17-05-1982	JP	1466793 C	10-11-1988	
	, ,	3	JP	63011934 B	16-03-1988
/ JP 57099327	 A	21-06-1982	NONE		